

# PARTS LIST

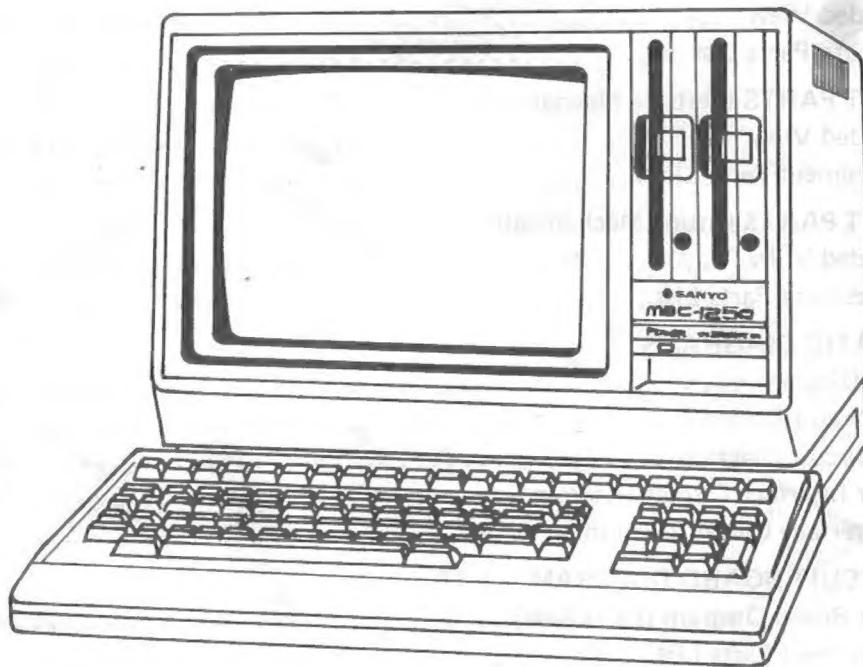
GENERAL-PURPOSE  
DESK TOP COMPUTER



SANYO

MBC-1200/1250

(EUROPE)



Bezeichnung/Description  
**ET-KATALOG**

Teile-Nr./Parts No.  
**WM-10191**

Menge/Quantity  
**1**

*Andreas Seus*

Lagerort

**SM/183**

LS-Nr.

**208994/ 1**

Sanyo Büro-Electronic Europa-Vertrieb GmbH

## PRODUCT SAFETY NOTICE

Each precaution in this manual should be followed during servicing. Components identified with the IEC symbol  $\Delta$  in the parts list and the schematic diagram designate components in which safety can be of special significance. When replacing a component identified with  $\Delta$ , use only the replacement parts designated, or parts with the same ratings of resistance, wattage or voltage that are designated in the parts list in this manual. Leakage-current or resistance measurements must be made to determine that exposed parts are acceptably insulated from the supply circuit before returning the product to the customer.

- NOTICE: 1. Parts order must contain Model Number, Parts Number and Description.  
2. Ordering quantity of resistors and capacitors must be multiple of 100 pcs.  
3. Ordering quantity of screws, nuts and washers must be multiple of 1000 pcs.  
4. Accessories and Labels are not listed on this parts list.

## CONTENTS

	Page
<b>1. KEYBOARD</b>	
Exploded View . . . . .	1
Keyboard Parts List . . . . .	1
<b>2. CABINET PARTS (Outside Mechanical)</b>	
Exploded View . . . . .	2
Replacement Parts List . . . . .	3
<b>3. CABINET PARTS (Inside Mechanical)</b>	
Exploded View . . . . .	4
Replacement Parts List . . . . .	5
<b>4. SCHEMATIC DIAGRAMS</b>	
Block Diagram . . . . .	6
CPU Circuit Diagram . . . . .	7 – 8
CRT Circuit Diagram . . . . .	9 – 10
Printer Interface Circuit Diagram . . . . .	11 – 12
I/O Interface Circuit Diagram . . . . .	13 – 14
<b>5. CPU CIRCUIT BOARD DIAGRAM</b>	
Circuit Board Diagram (Parts Side) . . . . .	15 – 16
Replacement Parts List . . . . .	17 – 21
<b>6. DISPLAY MONITOR (DDK-U120DIA)</b>	
Schematic Diagram . . . . .	22
Circuit Board Diagram (Parts Side) . . . . .	23
Replacement Parts List . . . . .	24 – 27
<b>7. WIRING DIAGRAM</b>	
Wiring Diagram Illustration . . . . .	28

## ABBREVIATIONS

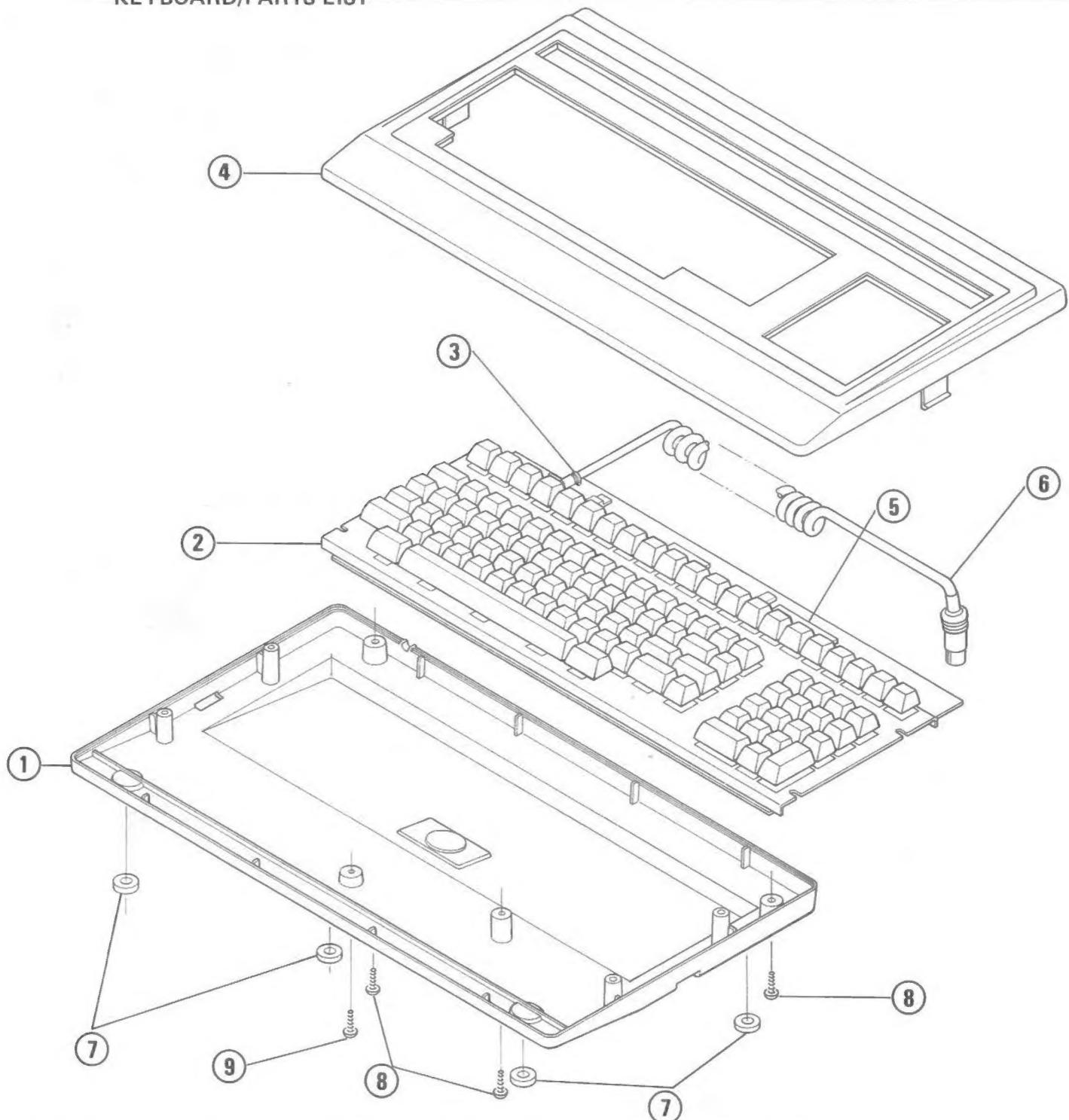
Materials of Capacitors and Resistors are abbreviated as follows.

ELECT . . . . .	Electrolytic Capacitor
MYLAR . . . . .	Mylar Film Capacitor
M-MYLAR . . . . .	Metallized Mylar Film Capacitor
METAL FILM . . . . .	Coat Insulated Metal Film Resistor
OXIDE-M . . . . .	Oxide-coated Metal Film Resistor
FUSE-R . . . . .	Fuse Resistor
WIRE . . . . .	Wirewound Resistor

Tolerance of Capacitors and Resistors are noted as following symbols.

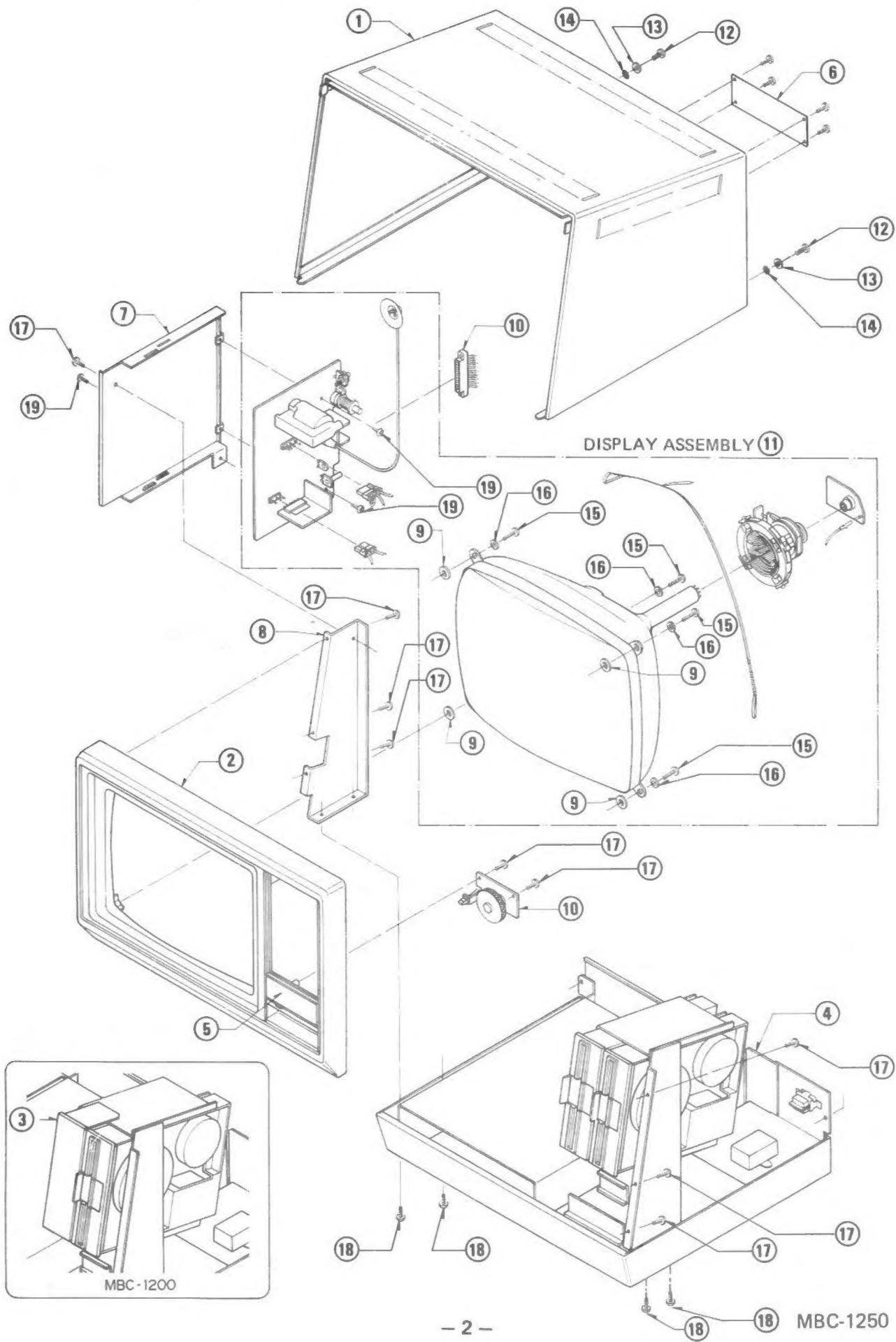
F . . . . .	$\pm 10\%$
J . . . . .	$\pm 5\%$
K . . . . .	$\pm 10\%$
M . . . . .	$\pm 20\%$
P . . . . .	$+100, -0\%$
Z . . . . .	$+80, -20\%$

KEYBOARD/PARTS LIST



No.	Parts Code	Parts Name	Q'ty
1	937-2-3119-013-00	BOTTOM KB-PQA	1
2	4-9349-563-00	KEYBOARD-PQX	1
3	811-3-1401-00	WIRE BAND CV-100	1
4	937-2-1129-001-00	CABINET KB-PQA-1/3	1
5	MDD8048C718	IC D8048C-718	1
6	⚠ 4-2439-036-00	KB CABLE ASSY-PQA	1
7	937-2-1299-002-00	LEG KB-PQA	4
8	122-W-2204-010-01	BUTTON HEAD TAPPING M4.0 x 10 Z1	3
9	122-W-2204-012-01	BUTTON HEAD TAPPING M4.0 x 12 Z1	1

CABINET PARTS (1)

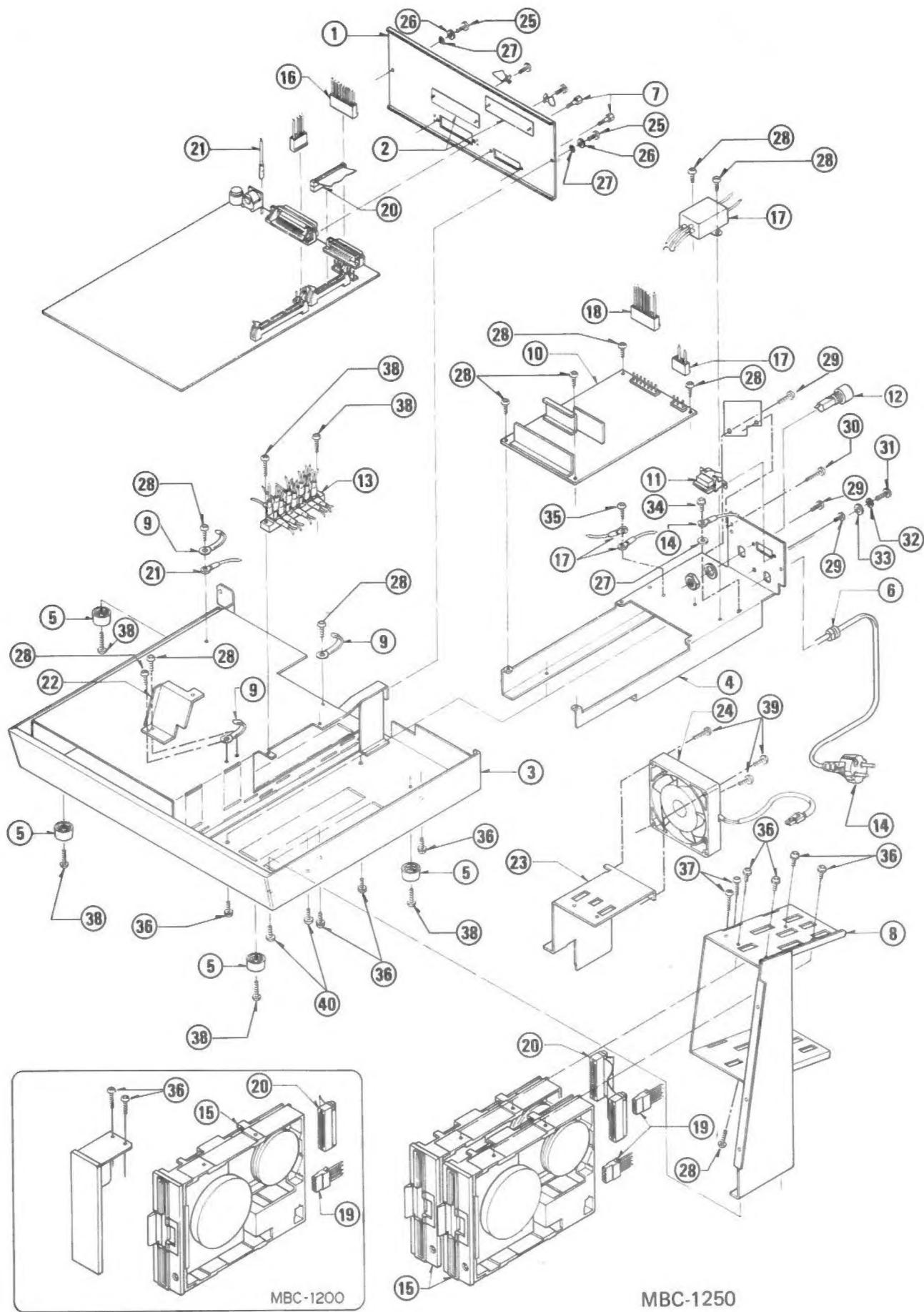


**PARTS LIST**

No.	Parts Code	Parts Name	Q'ty
1	937-2-1119-005-00	CASE ASSY-QAD	1
2	△ 937-2-1249-004-01	ESCUTCHEON-PQA	1
3	937-2-1249-012-00	MASK ASSY-PQA (MBC-1200)	1
4	937-2-1259-020-00	PANEL BLIND-PQA	1
	937-2-1289-001-00	DUST PROOF NET-QAD	1
5	937-2-1339-017-01	FRONT PANEL-PQX (MBC-1200)	1
	937-2-1339-017-05	FRONT PANEL-PQT (MBC-1250)	1
6	937-2-1339-016-01	NAME PLATE-PQX (MBC-1200)	1
	937-2-1339-016-01	NAME PLATE-PQX (MBC-1250)	1
7	937-2-4119-015-00	MOUNTING VIDEO PRINTED CIRCUIT BOARD-PQA	1
8	937-2-4189-004-00	CRT MOUNTING-PQA	1
9	937-2-7119-008-00	SPACER CRT-QAD	4
10	937-0-4329-012-00	VIDEO BRIGHT ASSY-PQA	1
	4-2229-01514	VR B-100K (VE162MN20K)	(1)
	4-2359-01706	10P CONNECTOR	(1)
	4-2379-00531	1P RING TONGUE	(4)
	RD0NCLJ271	CARBON 270 1/3W J	(1)
	4-6129-01000	LED SLP-265B (GREEN)	(1)
	853-3-0009-00400	SNAP BUSH FOR LED	(1)
	937-2-4389-00100	VR MOUNTING-QAD	(1)
	938-2-5229-00100	TV TUNING KNOB-TKD	(1)
	4-2359-001-12	4P CONNECTOR (Assembly)	(1)
	4-2379-002-12	1P TERMINAL	(4)
△	314-W-0003-60	WIRE UL1007 AWG20 BLACK L=360	(1)
△	314-W-0103-60	WIRE UL1007 AWG20 BROWN L=360	(1)
△	314-W-0903-60	WIRE UL1007 AWG20 WHITE L=360	(1)
△	314-W-0303-60	WIRE UL1007 AWG20 ORANGE L=360	(1)
△	724-W-0002-80	WIRE UL TUBE AWG3 BLACK L=280	(1)
11	4-1149-003-00	12-INCH MONITOR (DDK-U120ND1A)	1
12	101-W-1604-010-05	BINDING HEAD MACHINE M4.0 x 10 SS	2
13	111-W-1104-010-05	PLANE WASHER M4.0 x 10 SS	2
14	105-W-1504-000-01	TOOTHED LOCK WASHER-B M4.0 Z1	2
15	122-W-1604-016-01	TRUSS HEAD TAPPING M4.0 x 16 Z1	4
16	111-W-1104-010-01	PLANE WASHER M4.0 x 10 Z1	4
17	122-W-2204-010-01	BUTTON HEAD TAPPING M4.0 x 10 Z1	9
18	122-W-1704-008-07	TRUSS HEAD TAPPING M4.0 x 8 C1	4
19	122-W-2203-006-01	BUTTON HEAD TAPPING M3.0 x 6 Z1	3

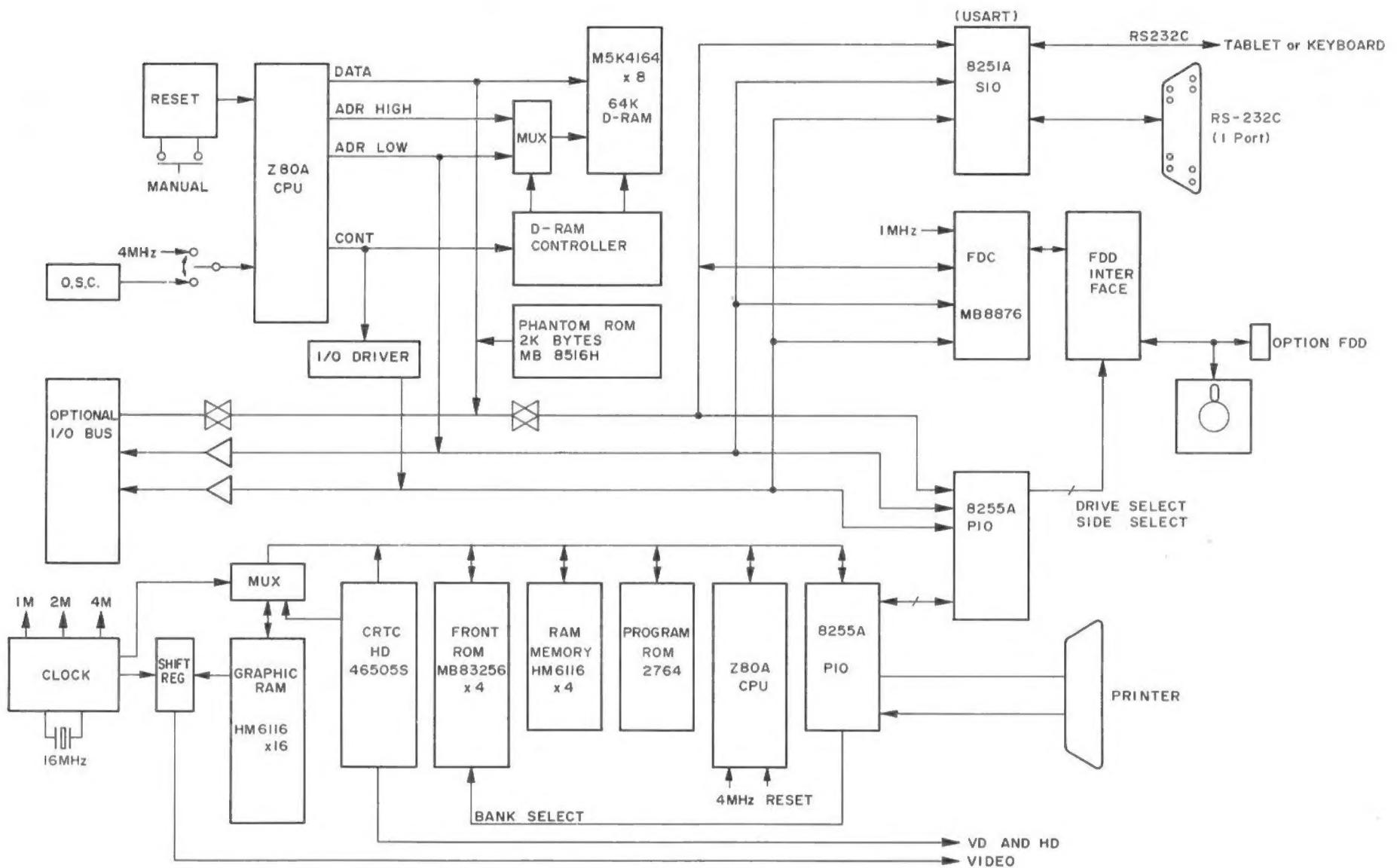
NOTE: 1. The parts indicated by parentheses in the column Q'ty are components for assembly parts.  
       2. Component parts used in the Display Monitor are also listed separately on page 24 in detail.

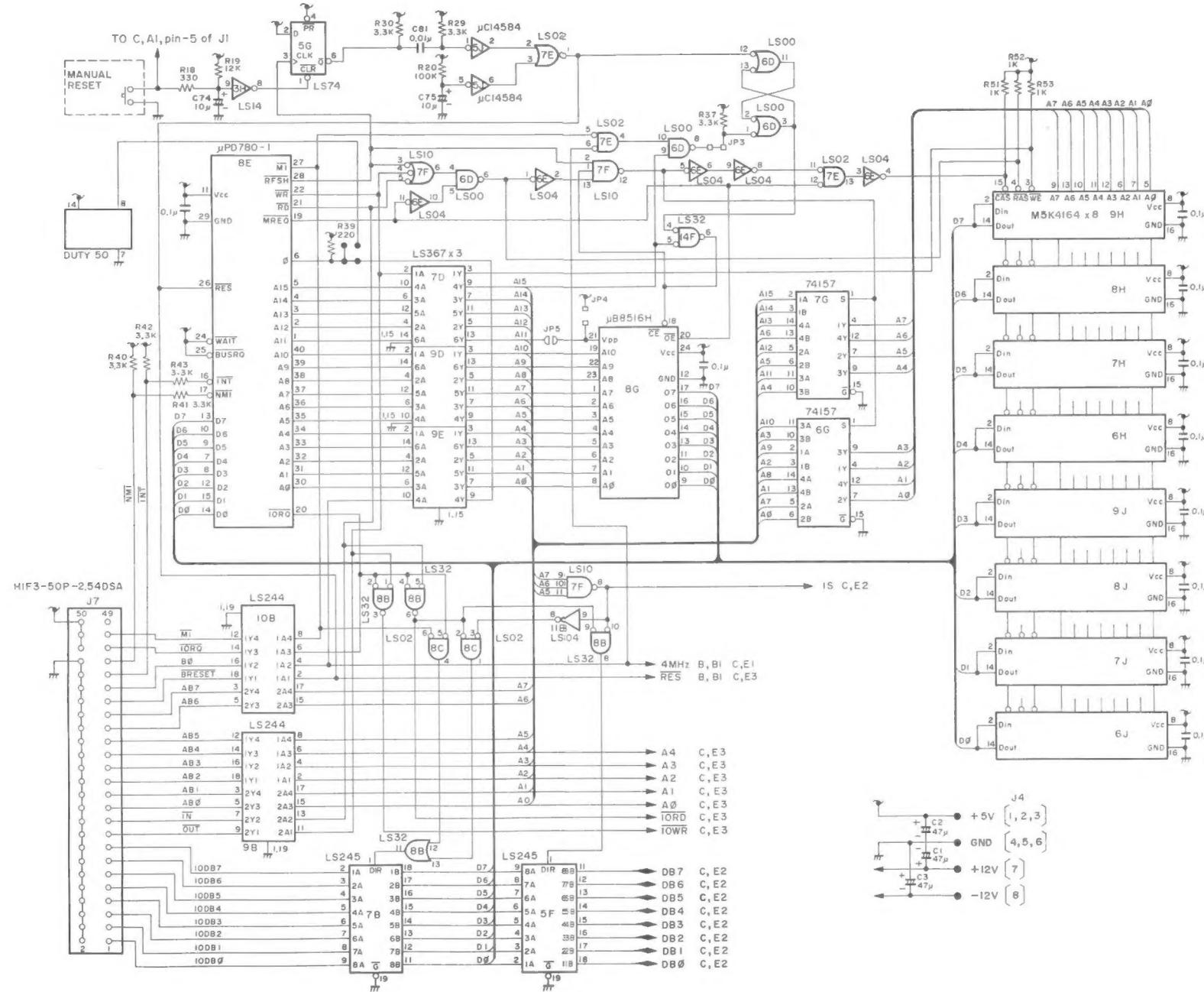
**CABINET PARTS (2)**

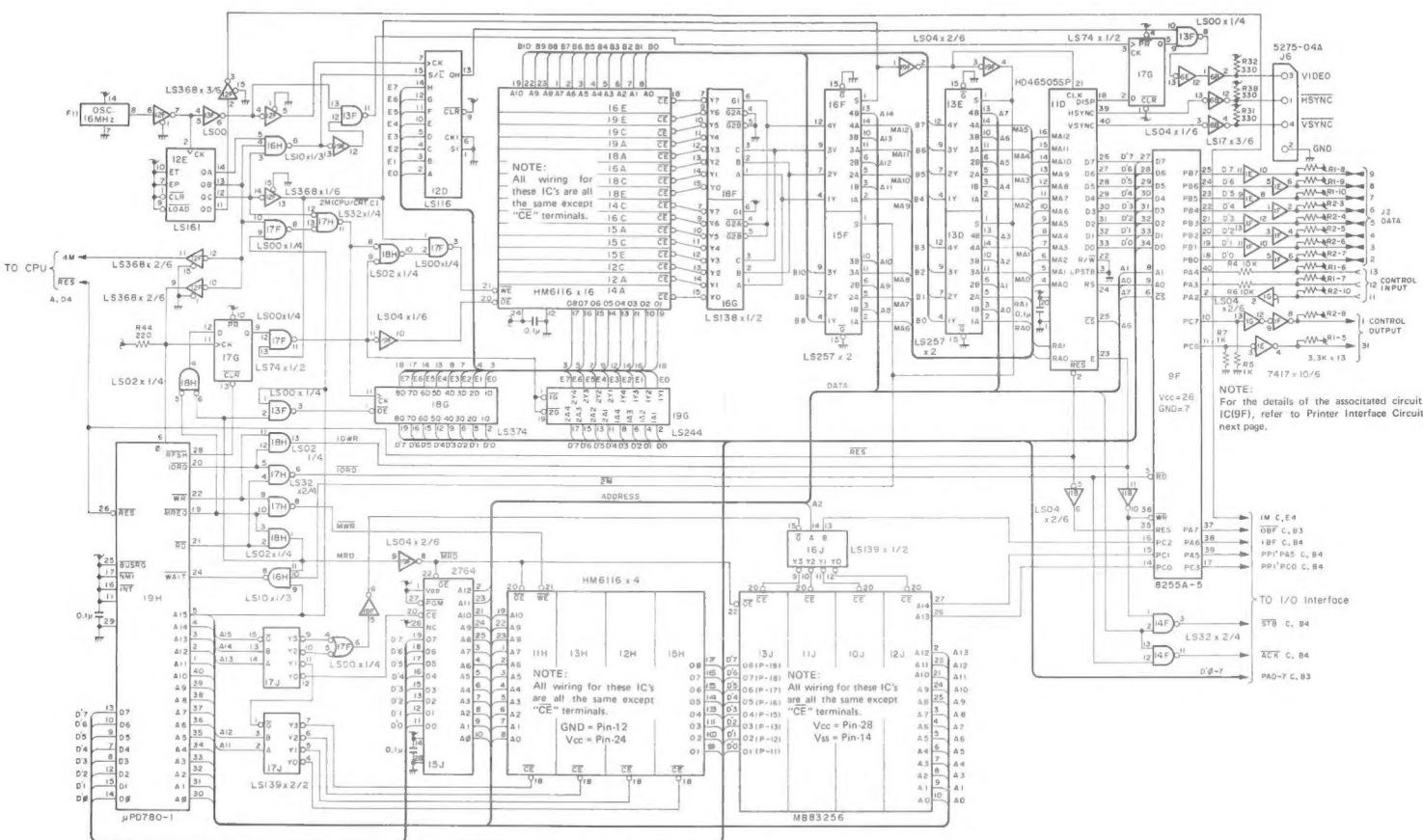


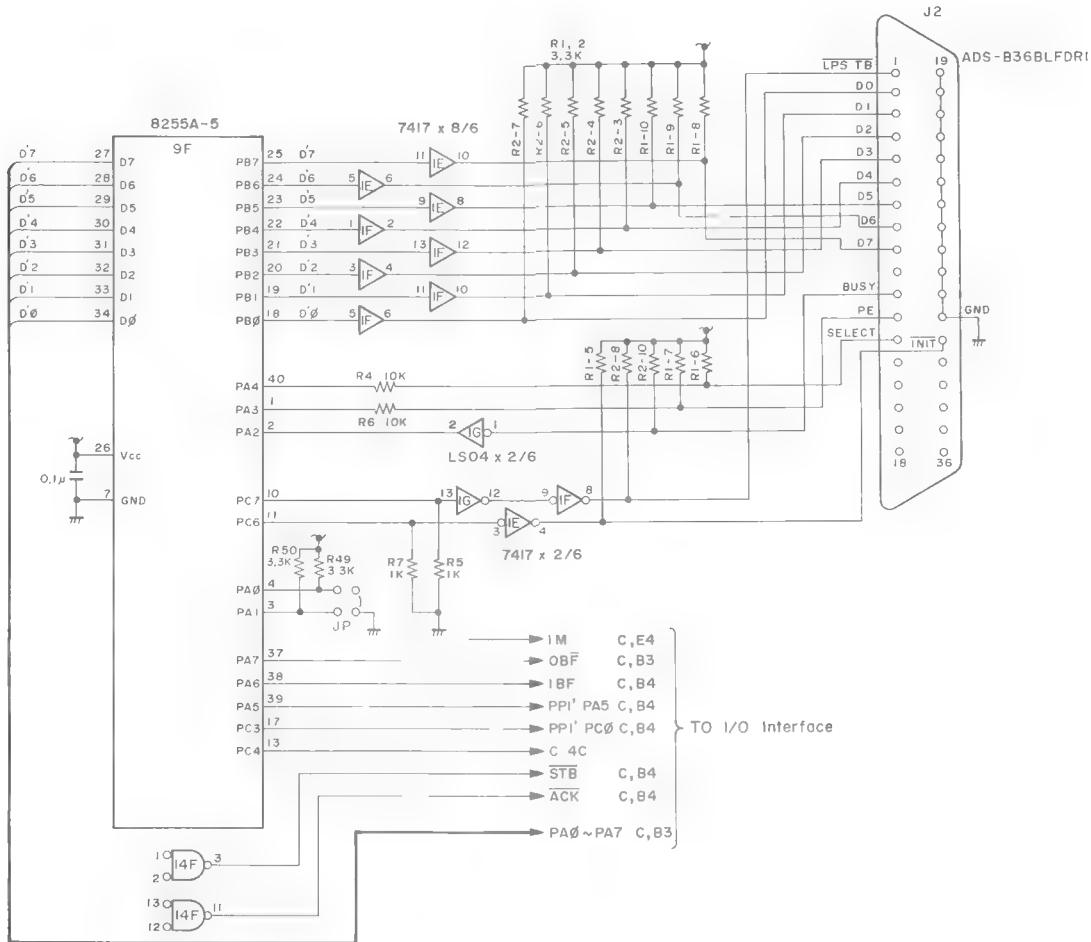
**PARTS LIST**

No.	Parts Code	Parts Name	Q'ty
1	937-2-1259-021-00	PANEL REAR-PQA	1
2	937-2-1259-005-00	PANEL BLIND 1-QAD	2
3	937-2-3119-012-00	BOTTOM ASSY-PQA	1
4	937-2-4319-009-00	POWER MOUNTING-PQA	1
5	852-3-0009-001-00	TRANN-LEG	4
6	△ 853-3-0009-006-00	BUSH FOR AC CORD	1
7	937-2-8639-001-00	SCREW HOLDER-PQA	2
8	937-2-4129-024-00	MOUNTING FDD ASSY-PQA	1
9	851-3-0009-001-00	WIRE HOLDER (59KU8811)	3
10	△ 4-1969-016-01	POWER UNIT SP-12E	1
11	△ 4-2319-010-15	SEESAW SWITCH	1
12	△ 4-2359-501-13	FUSE HOLDER	1
	△ 4-2349-00201-4	FUSE 1A, SEMCO	1
13	4-2379-003-28	8P TERMINAL	1
14	△ 4-2439-073-00	AC CORD-QZG	1
15	4-9359-107-00	FLOPPY (MBC-1200)	1
	4-9359-107-00	FLOPPY (MBC-1250)	2
16	937-0-4319-068-00	LGC DC CABLE ASSY-PQA	1
17	△ 937-0-4319-083-00	NOISE FILTER ASSY-POX	1
18	937-0-4319-070-00	DC CABLE ASSY-PQA	1
19	937-0-4319-071-00	FDD DC CABLE ASSY-PQA	1
20	937-0-4129-015-00	34P FD CABLE ASSY-PQA	1
21	937-0-4119-013-00	WIRE ASSY 2-115	1
22	937-2-4129-028-00	SUPPORT FDD-PQA	1
23	937-2-3219-011-00	SHIELD FDD-PQB	1
24	△ 937-0-4169-007-00	FAN ASSY-PQT (MBC-1250)	1
25	101-W-1604-010-05	BINDING HEAD MACHINE M4.0 x 10 SS	2
26	111-W-1104-010-05	PLANE WASHER M4.0 x 10 SS	2
27	105-W-1504-000-01	TOOTHED LOCK WASHER-B M4.0 Z1	3
28	122-W-2203-006-01	BUTTON HEAD TAPPING M3.0 x 6 Z1	11
29	937-2-8639-002-00	PAN HEAD (WITH SERRATED WASHER) M3 x 6 B1	3
30	122-W-2003-010-03	BINDING HEAD TAPPING M3.0 x 10 B1	1
31	101-W-1605-012-06	BINDING HEAD MACHINE M5.0 x 12 N1	1
32	105-W-1205-000-05	SPRING WASHER M5.0 SS	1
33	111-W-1105-012-06	PLANE WASHER M5 x 12 N1	1
34	122-W-2204-010-01	BUTTON HEAD TAPPING M4.0 x 10 Z1	1
35	122-W-2203-008-01	BUTTON HEAD TAPPING M3.0 x 8 Z1	1
36	136-W-1103-010-01	PAN HEAD M3.0 x 10 Z1	8
37	136-W-1104-008-01	PAN HEAD M4.0 x 8 Z1	2
38	122-W-2203-016-01	BUTTON HEAD TAPPING M3.0 x 16 Z1	6
39	136-W-1104-030-01	PAN HEAD M4.0 x 30 Z1 (For MBC-1250 Only)	3
40	122-W-1704-008-07	TRUSS HEAD TAPPING M4.0 x 8 C1	2

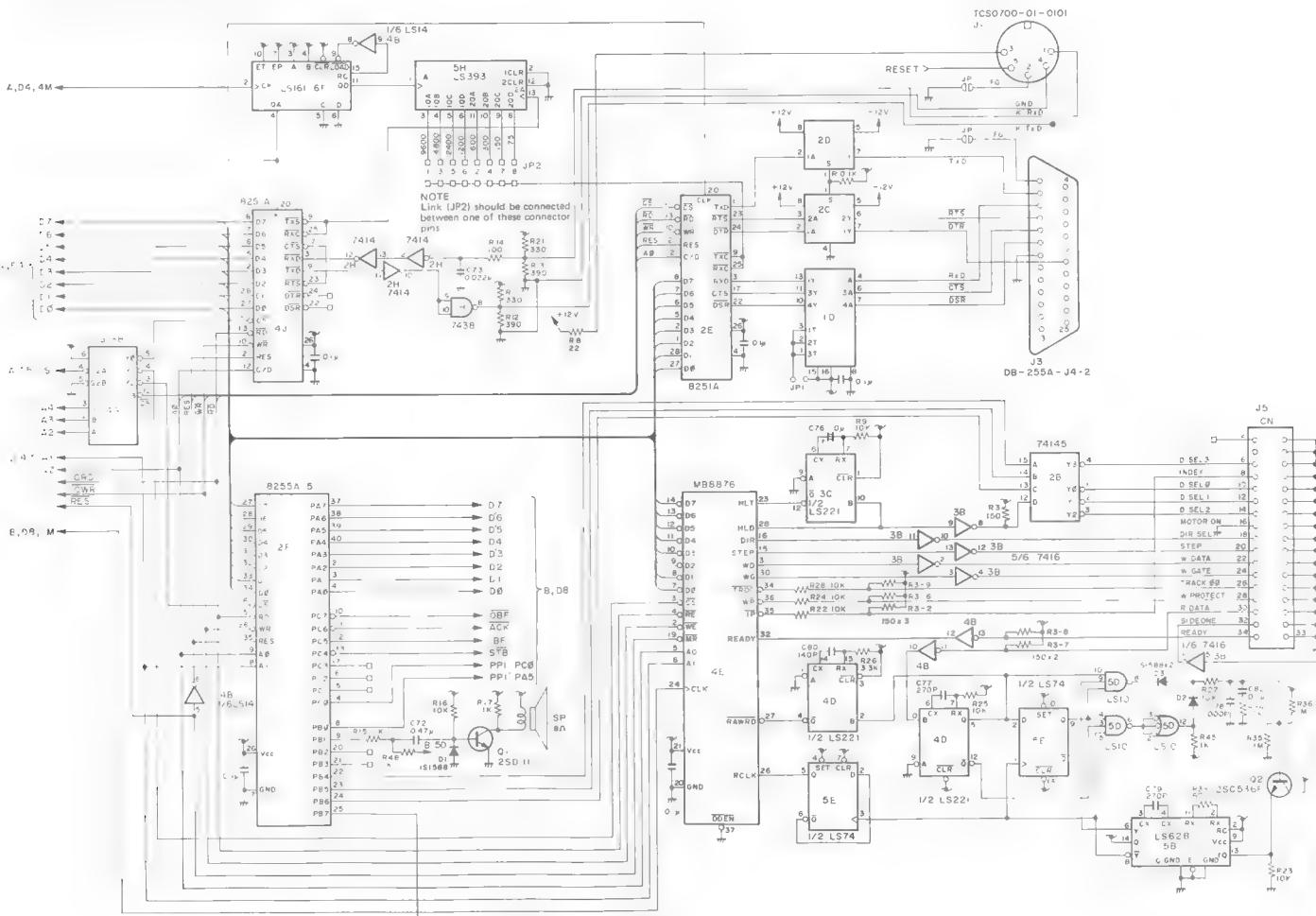








### -SCHEMATIC DIAGRAM (I/O Interface)-

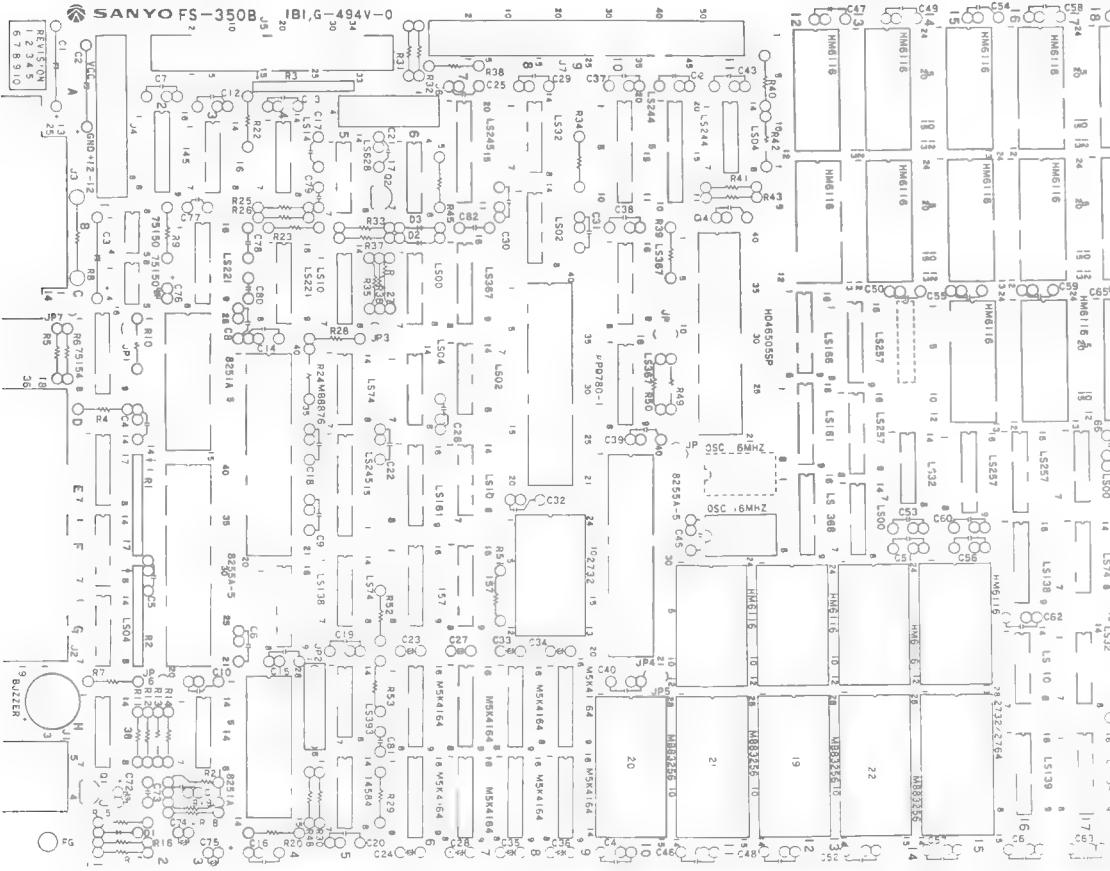


-CPU CIRCUIT BOARD DIAGRAM (Parts Side)-

**NOTE:** Locations of IC's and transistors on the printed circuit board are expressed in the two-dimensional coordinate. Please find a location at a point of intersection of horizontal and vertical axes.

Horizontal axis . . . . . Alphabetical order  
 Vertical axis Numerical order

A HISTORY OF THE CHINESE IN AMERICA



**PARTS LIST (CPU Board)**

Location	Parts Code	Description	Q'ty	
<b>SMALL PARTS</b>				
FG	4 2269 21900	PRINTED CIRCUIT BOARD FS-350B	1	
FG	4 2369 00302	FASTON TUB	1	
J1	4 2359 00227	DIN 5P SOCKET	1	
J2	4 2369 00536	36P CONNECTOR PLUG	1	
J3	4 2369 00903	25P CONNECTOR PLUG WITH BRACKET	1	
J4	4 2369 00112	8P CONNECTOR PLUG	1	
J5	4 2359 03904	34P CONNECTOR PLUG S-TYPE	1	
J6	4 2369 00212	4P CONNECTOR PLUG	1	
J7	4 2359 04104	50P CONNECTOR PLUG S-TYPE	1	
JP	4 2359 00236	2P CONNECTOR PLUG	1	
JP	4 2369 00836	4P CONNECTOR PIN	1	
JP2	4 2359 00236	2P CONNECTOR PLUG	1	
JP2	4 2369 00336	16P CONNECTOR PLUG	1	
8E	4 2359 00903	40P IC SOCKET	1	
8G	4 2359 00803	24P IC SOCKET	1	
12H	4 2359 00803	24P IC SOCKET	1	
13H	4 2359 00803	24P IC SOCKET	1	
15H	4 2359 00803	24P IC SOCKET	1	
10J	4 2359 01003	28P IC SOCKET	1	
11J	4 2359 01003	28P IC SOCKET	1	
12J	4 2359 01003	28P IC SOCKET	1	
13J	4 2359 01003	28P IC SOCKET	1	
15J	4 2359 01003	28P IC SOCKET	1	
<b>ELECTRICAL PARTS</b>				
11E	4 1519 00300 XY16000	SPEAKER QMB-06 CRYSTAL 16MHZ	1 1	
<b>FIXED CAPACITORS</b>				
C1	CE1CCLM476AW	ELECT	47M 16V M	1
C2	CE1CCLM476AW	ELECT	47M 16V M	1
C3	CE1CCLM476AW	ELECT	47M 16V M	1
C4	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C5	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C6	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C7	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
*C8	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C9	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C10	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C11	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C12	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C13	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C14	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C15	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C16	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C17	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C18	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C19	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C20	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C21	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C22	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C23	CG1HSLZ104F	MONOLITHIC CERAMIC	0.1M 50V Z	1
C24	CG1HSLZ104F	MONOLITHIC CERAMIC	0.1M 50V Z	1
C25	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1
C26	CB1LRCZ204BC	CERAMIC	0.2M 12V Z BC	1

**PARTS LIST (CPU Board)**

Location	Parts Code	Description						Q'ty
C27	CG1HSLZ104F	MONOLITHIC CERAMIC	0.1M	50V	Z			1
C28	CG1HSLZ104F	MONOLITHIC CERAMIC	0.1M	50V	Z			1
C29	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C30	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C31	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C32	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C33	OG1HSLZ104F	MONOLITHIC CERAMIC	0.1M	50V	Z			1
C34	OG1HSLZ104F	MONOLITHIC CERAMIC	0.1M	50V	Z			1
C35	OG1HSLZ104F	MONOLITHIC CERAMIC	0.1M	50V	Z			1
C36	OG1HSLZ104F	MONOLITHIC CERAMIC	0.1M	50V	Z			1
C37	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C38	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C39	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C40	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C41	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C42	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C43	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C44	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C45	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C46	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C47	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C48	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C49	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C50	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C51	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C52	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C53	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C54	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C55	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C56	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C57	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C58	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C59	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C60	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C61	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C62	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C63	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C64	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C65	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C66	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C67	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C68	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C69	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C70	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C71	CB1LRCZ204BC	CERAMIC	0.2M	12V	Z	BC		1
C72	CT1VBLK474AE	TANTAL	0.47M	35V	K			1
C73	CK1HRLZ223F	CERAMIC	0.022MF	50V	Z			1
C74	CE1CDLM106AW	ELECT		10M	16V	M		1
C75	CT1CBLK106AE	TANTAL		10M	16V	K		1
C76	CT1CBLK106AE	TANTAL		10M	16V	K		1
C77	CN2ASLJ271	MICA (DIP TYPE)		270P	100V	J		1
C78	CN2ASLJ102	MICA (DIP TYPE)		1000P	100V	J		1
C79	CN2ACIJ271	MICA (DIP TYPE)		270P	100V	J		1
C80	CN2ASLJ141	MICA (DIP TYPE)		140P	100V	J		1
C81	CF1HSLK103AM	MYLAR		0.01M	50V	K		1

**PARTS LIST (CPU Board)**

Location	Parts Code	Description			Q'ty	
C82	CF1HSLK104AM	MYLAR	0.1M	50V	K	1
<b>FIXED RESISTORS</b>						
R1	BM0B91J332	BLOCK RESISTOR	3.3K	1/8W	J	1
R2	BM0B91J332	BLOCK RESISTOR	3.3K	1/8W	J	1
R3	BM0B91J151	BLOCK RESISTOR	150	1/8W	J	1
R4	RD0NDLJ103C	CARBON	10K	1/3W	J	1
R5	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R6	RD0NDLJ103C	CARBON	10K	1/3W	J	1
R7	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R8	RN1DDLJ220F	OXIDE	22	2W	J	1
R9	RN0EDLF103C	METAL FILM	10K	1/4W	F	1
R10	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R11	RDDNDLJ331C	CARBON	330	1/3W	J	1
R12	RD0NDLJ391C	CARBON	390	1/3W	J	1
R13	RD0NDLJ391C	CARBON	390	1/3W	J	1
R14	RD0NDLJ101C	CARBON	100	1/3W	J	1
R15	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R16	RD0NDLJ103C	CARBON	10K	1/3W	J	1
R17	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R18	RD0NDLJ331C	CARBON	330	1/3W	J	1
R19	RD0NDLJ123C	CARBON	12K	1/3W	J	1
R20	RD0NDLJ104C	CARBON	100K	1/3W	J	1
R21	RDDNDLJ331C	CARBON	330	1/3W	J	1
R22	RD0NDLJ103C	CARBON	10K	1/3W	J	1
R23	RN0EDLF103C	METAL FILM	10K	1/4W	F	1
R24	RD0NDLJ103C	CARBON	10K	1/3W	J	1
R25	RN0EDLF103C	METAL FILM	10K	1/4W	F	1
R26	RN0EDLF332C	METAL FILM	3.3K	1/4W	F	1
R27	RN0EDLF103C	METAL FILM	10K	1/4W	F	1
R28	RD0NDLJ103C	CARBON	10K	1/3W	J	1
R29	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R30	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R31	RDDNDLJ331C	CARBON	330	1/3W	J	1
R32	RDDNDLJ331C	CARBON	330	1/3W	J	1
R33	RN0EDLF601C	METAL FILM	600	1/4W	F	1
R34	RN0EDLF103C	METAL FILM	10K	1/4W	F	1
R35	RN0EDLF105C	METAL FILM	1M	1/4W	F	1
R36	RN0EDLF105C	METAL FILM	1M	1/4W	F	1
R37	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R38	RD0NDLJ331C	CARBON	330	1/3W	J	1
R39	RD0NDLJ221C	CARBON	220	1/3W	J	1
R40	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R41	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R42	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R43	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R44	RD0NDLJ221C	CARBON	220	1/3W	J	1
R45	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R48	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R49	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R50	RD0NDLJ332C	CARBON	3.3K	1/3W	J	1
R51	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R52	RD0NDLJ102C	CARBON	1K	1/3W	J	1
R53	RD0NDLJ102C	CARBON	1K	1/3W	J	1

**PARTS LIST (CPU Board)**

Location	Parts Code	Description	Q'ty
<b>SEMICONDUCTORS AND IC</b>			
D1	DA1S1588	DIODE 1S1588	1
D2	DA1S1588	DIODE 1S1588	1
D3	DA1S1588	DIODE 1S1588	1
Q1	TID1111	TR 2SD1111	1
Q2	TIC536F	TR 2SC536 (F)	1
1D	LOSN75154N	IC SN75154N (TTL)	1
1E	PNHD7417P	IC HD7417P (TTL)	1
1F	PNHD7417P	IC HD7417P (TTL)	1
1G	PCMB74LS04M	IC MB74LS04M (TTL)	1
1H	PNHD7438P	IC HD7438P (TTL)	1
2B	POSN74145N	IC SN74145N (TTL)	1
2C	LOSN75150P	IC SN75150P (TTL)	1
2D	LOSN75150P	IC SN75150P (TTL)	1
2E	JQ8251A	IC P8251A (LSI)	1
2F	JD8255AC-5	IC D8255AC-5 (LSI)	1
3B	PNHD7416P	IC HD7416P (TTL)	1
3C	PBM74LS221P	IC M74LS221P (TTL)	1
3H	PCMB74LS14M	IC MB74LS14M (TTL)	1
4B	PCMB74LS14M	IC MB74LS14M (TTL)	1
4D	PBM74LS221P	IC M74LS221P (TTL)	1
4E	JBM5W1791-02P	IC M5W1791-02P (LSI)	1
4G	PCMB74LS138M	IC MB74LS138M (TTL)	1
4J	JQ8251A	IC P8251A (LSI)	1
5B	POSN74LS628M	IC SN74LS628N (TTL)	1
5D	PCMB74LS10M	IC MB74LS10M (TTL)	1
5E	PCMB74LS74M	IC MB74LS74M (TTL)	1
5F	PBM74LS245P	IC M74LS245P (TTL)	1
5G	PCMB74LS74M	IC MB74LS74AM (TTL)	1
5H	PBM74LS393P	IC M74LS393P (TTL)	1
5J	MSMC14584B	IC MC14584BCP (C-MOS)	1
6B	PNHD7417P	IC HD7417P (TTL)	1
6D	PCMB74LS00M	IC MB74LS00M (TTL)	1
6E	PCMB74LS04M	IC MB74LS04M (TTL)	1
6F	PBM74LS161P	IC M74LS161P (TTL)	1
6G	POSN74157N	IC SN74157N (TTL)	1
6H	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
6J	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
7B	PBM74LS245P	IC M74LS245P (TTL)	1
7D	PCMB74LS367M	IC MB74LS367AM (TTL)	1
7E	PCMB74LS02M	IC MB74LS02M (TTL)	1
7F	PCMB74LS10M	IC MB74LS10M (TTL)	1
7G	POSN74157N	IC SN74157N (TTL)	1
7H	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
7J	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
8B	PCMB74LS32M	IC MB74LS32M (TTL)	1
8C	PCMB74LS02M	IC MB74LS02M (TTL)	1
8E	JXLH0080A	IC LH0080A (CPU)	1
or	JDD780C-1	IC D780C-1 (CPU)	1
8H	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
8J	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
9B	PBM74LS244P	IC M64LS244P (TTL)	1
9D	PCMB74LS367M	IC MB74LS367AM (TTL)	1
9E	PCMB74LS367M	IC MB74LS367AM (TTL)	1
9F	JD8255AC-5	IC D8255AC-5 (LSI)	1

**PARTS LIST (CPU Board)**

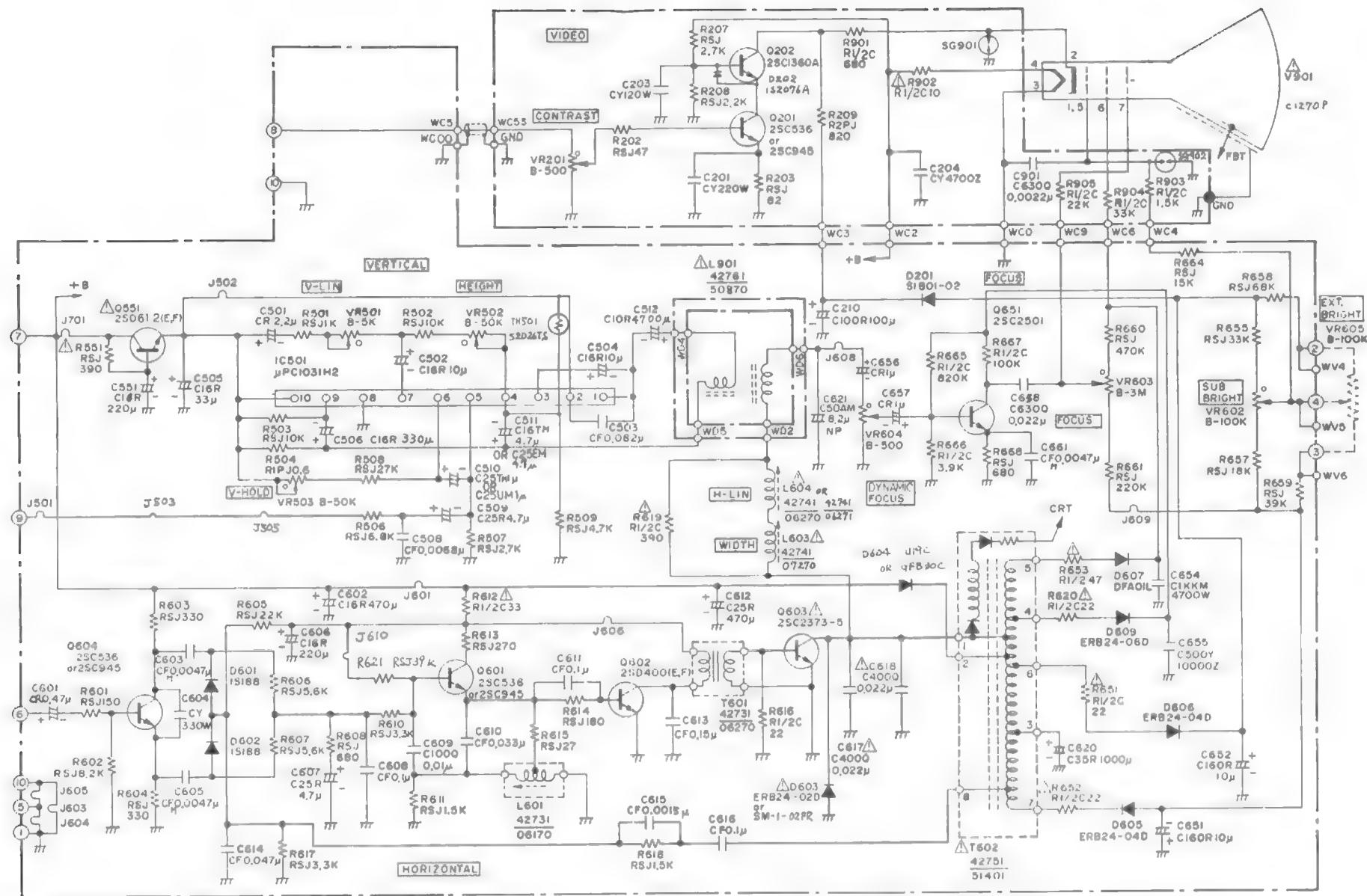
Location	Parts Code	Description	Q'ty
9H	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
9J	AB4164NP-15	IC M5K4164NP-15 (64K BIT D-RAM)	1
10B	PBM74LS244P	IC M74LS244P (64K BIT D-RAM)	1
11B	PCMB74LS04M	IC MB74LS04M (TTL)	1
11D	JNHD46505S	IC HD46505S (CRTC)	1
11H	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
12A	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
12C	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
12D	POSN74LS166N	IC SN74LS166AN (STATIC-RAM)	1
12E	PBM74LS161P	IC M74LS161P (TTL)	1
12F	PBM74LS368AP	IC M74LS368AP (TTL)	1
13D	POSN74LS257AN	IC SN74LS257AN (TTL)	1
13E	POSN74LS257AN	IC SN74LS257AN (TTL)	1
13F	PCMB74LS00M	IC MB74LS00M (TTL)	1
14A	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
14C	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
14F	PCMB74LS32M	IC MB74LS32M (TTL)	1
15A	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
15C	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
15E	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
15F	POSN74LS257AN	IC SN74LS257AN (TTL)	1
16A	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
16C	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
16E	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
16F	POSN74LS257AN	IC SN74LS257AN (TTL)	1
16G	PCMB74LS138M	IC MB74LS138M (TTL)	1
16H	PCMB74LS10M	IC MB74LS10M (TTL)	1
16J	PCMB74LS139M	IC MB74LS139M (TTL)	1
17F	PCMB74LS00M	IC MB74LS00M (TTL)	1
17G	PCMB74LS74M	IC MB74LS74M (TTL)	1
17H	PCMB74LS32M	IC MB74LS32M (TTL)	1
17J	PCMB74LS139M	IC MB74LS139M (TTL)	1
18A	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
18C	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
18E	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
18F	PCMB74LS138M	IC MB74LS138M (TTL)	1
18G	PBM74LS374P	IC M74LS374P (TTL)	1
18H	PCMB74LS02M	IC MB74LS02M (TTL)	1
19A	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
19C	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
19E	ANHM6116P-3	IC HM6116P-3 (STATIC-RAM)	1
19F	PCMB74LS04M	IC MB74LS04M (TTL)	1
19G	PBM74LS244P	IC M74LS244P (TTL)	1
19H	JXLH0080A	IC LH0080A (CPU)	1
or	JDD780C-1	IC D780C-1 (CPU)	1
8G	OQ2732AFA8	IC D2732A-2 FA8-2 (ROM 4Kx8)	1
15J	OB2764K-25FA5	IC M5L2764K-25 FA5-1	1
or	OB2764K-25	IC M5L2764K-25	1

**\*NOTE:**

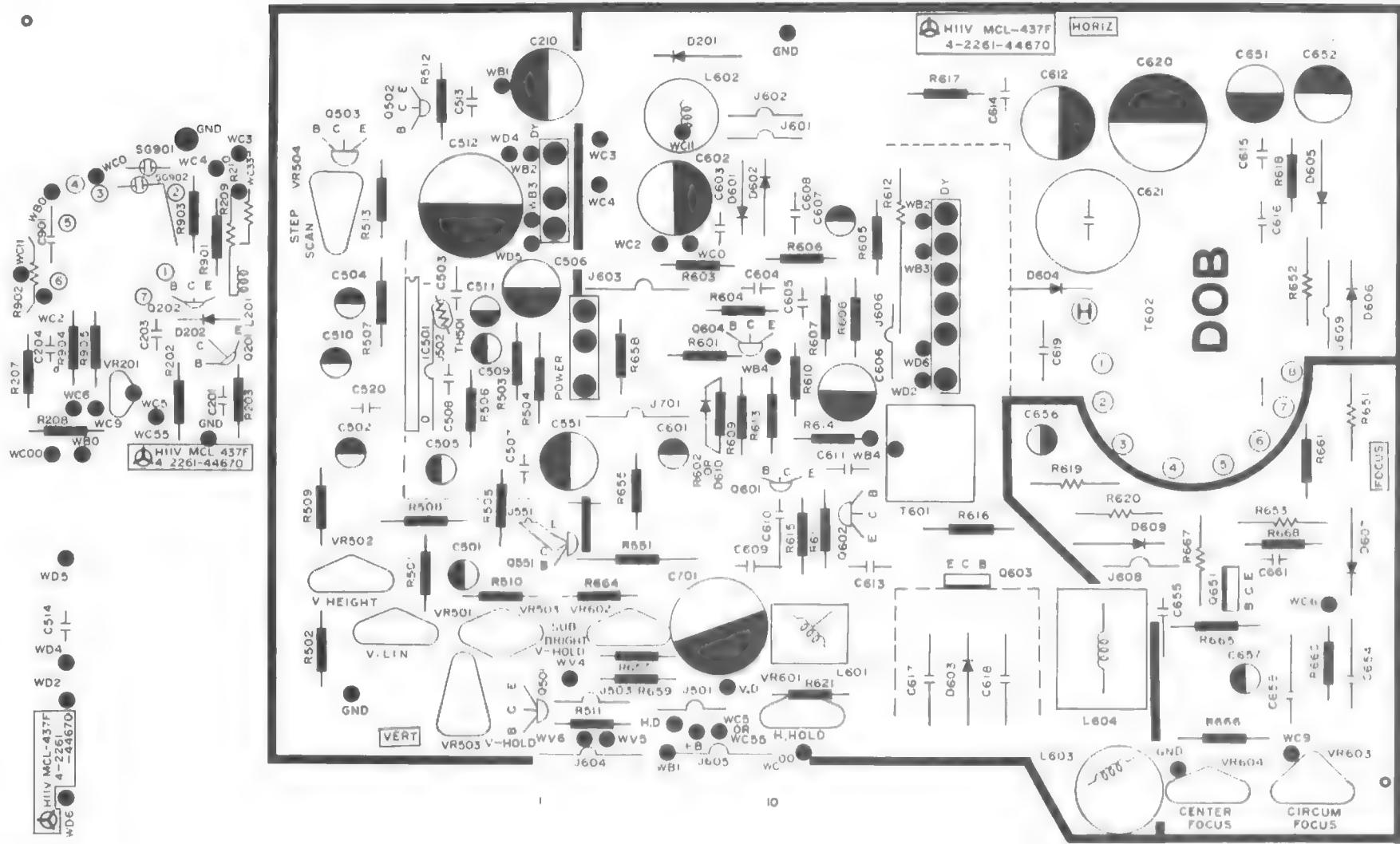
Ceramic capacitor 0.2M 12V listed as C8 on this parts list is located on C77 on the parts side of PC Board.

Refer to CPU CIRCUIT BOARD DIAGRAM on page 16 and 17 to find a correct location.

-SCHEMATIC DIAGRAM (Display Monitor)-



DISPLAY MONITOR CIRCUIT BOARD DIAGRAM (Parts Side)



**PARTS LIST (Display Monitor)**

Location	Parts Code	Description	Q'ty	
<b>CHASSIS PARTS</b>				
	111 2 4231 10170	NYLON RIVET 3x5.5	2	
	111 2 6211 22670	HORIZONTAL RADIATOR PLATE-TJJ	1	
	111 2 6211 22770	VERTICAL RADIATOR PLATE-TJJ	1	
	111 2 6211 26970	RADIATOR-MDZ	1	
	111 2 7211 13270	WIRE BAND-TCM	1	
	111 2 7211 14870	WIRE BAND-THJ-B	5	
	111 2 7341 14770	INSTRUCTION COVER-MBD	1	
<b>ELECTRICAL PARTS</b>				
L601	4 2731 06170	HORIZONTAL OSC COIL	1	
L603	4 2741 07270	WIDTH COIL	1	
L604	4 2741 06270	LINEARITY COIL	1	
or	4 2741 06271	LINEARITY COIL	1	
L901	4 2761 50870	DEFLECTION YOKE	1	
T601	4 2731 06270	HORIZONTAL DRIVE TRANSFORMER	1	
T602	4 2751 51401	FLYBACK TRANSFORMER	1	
<b>SMALL PARTS</b>				
	4 2261 44670	PRINTED CIRCUIT BOARD-DOB	1	
	4 2350 61600	TERMINAL SOCKET	1	
	4 2351 05470	CRT SOCEKT	1	
	4 2360 04300	GT PIN	1	
	4 2361 07270	3P MINI PIN	1	
	4 2361 07370	4P MINI PIN	1	
	111 0 9011 15070	GROUNDING CONNECTOR	1	
	111 0 9081 03053	3P SOCKET ASSY	1	
	111 0 9081 04034	4P SOCKET ASSY	1	
SG901	4 2341 07770	SPARK GAP	1	
or	4 2341 06270	SPARK GAP	1	
SG902	4 2341 07770	SPARK GAP	1	
or	4 2341 06270	SPARK GAP	1	
<b>VARIABLE RESISTORS</b>				
VR201	4 2221 40170	8PFRB-500	1	
VR501	4 2221 23970	10FFRB-5K	1	
VR502	4 2221 24270	10FFRB-50K	1	
VR503	4 2221 32670	12CFR22B-50K	1	
VR602	4 2221 24370	10FFRB-100K	1	
VR603	4 2221 36470	15CHFR8B-3M	1	
VR604	4 2221 23670	10FFRB-500	1	
<b>FIXED CAPACITORS</b>				
C201	C1HYDK221W	CERAMIC	220P 50V K (W)	1
C203	C1HYDK121W	CERAMIC	120P 50V K (W)	1
C204	C1HYDP472Z	CERAMIC	4700P 50V P (Z)	1
C210	C2ARE-107A	ELECT	100M 100V	1
C501	C1HRE-225A	ELECT	2.2M 50V	1
C502	C1CRE-106A	ELECT	10M 16V	1
C503	C1HFRK823A	MYALR	0.082M 50V K	1
C504	C1CRE-106A	ELECT	10M 16V	1
C505	C1CRE-336A	ELECT	33M 16V	1
C506	C1CRE-337A	ELECT	330M 16V	1
C508	C1HFRK682A	MYLAR	0.0068M 50V K	1
C509	C1ERE-475A	ELECT	4.7M 25V	1

**PARTS LIST (Display Monitor)**

Location	Parts Code	Description				Q'ty
C510	C1EUEM105A	ELECT	1M	25V	M	1
or	C1ETDM105A	TANTAL	1M	25V	M	1
C511	C1EEEM475S	ELECT	4.7M	25V	M	1
or	C1CTDM475A	TANTAL	4.7M	16V	M	1
C512	C1ARE-478A	ELECT	4700M	10V		1
C551	C1CRE-227A	ELECT	220M	16V		1
C601	C1HRE-474A	ELECT	0.47M	50V		1
C602	C1CRE-477A	ELECT	470M	16V		1
C603	C1HFRK472A	MYLAR	0.0047M	50V	K	1
C604	C1HYDK331W	CERAMIC	330P	50V	K (W)	1
C605	C1HFRK472A	MYLAR	0.0047M	50V	K	1
C606	C1CRE-227A	ELECT	220M	16V		1
C607	C1ERE-475A	ELECT	4.7M	25V		1
C608	C1HFRK104A	MYLAR	0.1M	50V	K	1
C609	C2AQEK103A	POLYPR	0.01M	100V	K	1
C610	C1HFRK333A	MYLAR	0.033M	50V	K	1
C611	C1HFRK104A	MYLAR	0.1M	50V	K	1
C612	C1ERE-477A	ELECT	470M	25V		1
C613	C1HFRK154A	MYLAR	0.15M	50V	K	1
C614	C1HFRK473A	MYLAR	0.047M	50V	K	1
C615	C1HFRK152A	MYLAR	0.0015M	50V	K	1
C616	C1HFRK104A	MYLAR	0.1M	50V	K	1
C617	C2GQEKF23A	POLYPR	0.022M	400V	K	1
C618	C2GQEKF23A	POLYPR	0.022M	400V	K	1
C620	C1VRE-108A	ELECT	1000M	35V		1
C621	C1HAEM010T	ELECT	8.2M	50V	M	1
C651	C2CRE-106A	ELECT	10M	160V		1
C652	C2CRE-106A	ELECT	10M	160V		1
C654	C3AKDM472W	CERAMIC	4700P	1KV	M (W)	1
C655	C2HYFP103Z	CERAMIC	0.01M	500V	P (Z)	1
C656	C1HRE-105A	ELECT	1M	50V		1
C657	C1HRE-105A	ELECT	1M	50V		1
C658	C2JQFK223A	POLYPR	0.022M	630V	K	1
C661	C1HFRK472A	MYLAR	0.0047M	50V	K	1
C901	C2JQFK222A	POLYPR	0.0022M	630V	K	1

**FIXED RESISTORS**

R202	R2ESPJ470A	CARBON	47	1/4W	J	1
R203	R2ESPJ820A	CARBON	82	1/4W	J	1
R207	R2ESPJ272A	CARBON	2.7K	1/4W	J	1
R208	R2ESPJ222A	CARBON	2.2K	1/4W	J	1
R209	R3DXPJ821A	OXIDE-M	820	2W	J	1
R501	R2ESPJ102A	CARBON	1K	1/4W	J	1
R502	R2ESPJ103A	CARBON	10K	1/4W	J	1
R503	R2ESPJ103A	CARBON	10K	1/4W	J	1
R504	R3APPJ0R6A	OXIDE-M	0.6	1W	J	1
R506	R2ESPJ682A	CARBON	6.8K	1/4W	J	1
R507	R2ESPJ272A	CARBON	2.7K	1/4W	J	1
R508	R2ESPJ273A	CARBON	27K	1/4W	J	1
R509	R2ESPJ472A	CARBON	4.7K	1/4W	J	1
R551	R2ESPJ391A	CARBON	390	1/4W	J	1
R601	R2ESPJ151A	CARBON	150	1/4W	J	1
R602	R2ESPJ822A	CARBON	8.2K	1/4W	J	1
R603	R2ESPJ331A	CARBON	330	1/4W	J	1
R604	R2ESPJ331A	CARBON	330	1/4W	J	1
R605	R2ESPJ223A	CARBON	22K	1/4W	J	1

**PARTS LIST (Display Monitor)**

Location	Parts Code	Description				Q'ty
R606	R2ESPJ562A	CARBON	5.6K	1/4W	J	1
R607	R2ESPJ562A	CARBON	5.6K	1/4W	J	1
R608	R2ESPJ681A	CARBON	680	1/4W	J	1
R609	R2ESPJ123A	CARBON	12K	1/4W	J	1
R610	R2ESPJ332A	CARBON	3.3K	1/4W	J	1
R611	R2ESPJ152A	CARBON	1.5K	1/4W	J	1
▲ R612	R2HCPK330A	SOLID	33	1/2W	K	1
R613	R2ESPJ271A	CARBON	270	1/4W	J	1
R614	R2ESPJ181A	CARBON	180	1/4W	J	1
R615	R2ESPJ270A	CARBON	27	1/4W	J	1
R616	R2HCPK220A	SOLID	22	1/2W	K	1
R617	R2ESPJ332A	CARBON	3.3K	1/4W	J	1
R618	R2ESPJ152A	CARBON	1.5K	1/4W	J	1
▲ R619	R2HCPK391A	SOLID	390	1/2W	K	1
▲ R620	R2HCPK220A	SOLID	22	1/2W	K	1
R621	R2ESPJ393A	CARBON	39K	1/4W	J	1
▲ R651	R2HCPK220A	SOLID	22	1/2W	K	1
▲ R652	R2HCPK220A	SOLID	22	1/2W	K	1
▲ R653	R2HCPK470A	SOLID	47	1/2W	K	1
R655	R2ESPJ333A	CARBON	33K	1/4W	J	1
R657	R2ESPJ183A	CARBON	18K	1/4W	J	1
R658	R2ESPJ683A	CARBON	68K	1/4W	J	1
R659	R2ESPJ393A	CARBON	39K	1/4W	J	1
R660	R2ESPJ474A	CARBON	470K	1/4W	J	1
R661	R2ESPJ224A	CARBON	220K	1/4W	J	1
R664	R2ESPJ153A	CARBON	15K	1/4W	J	1
R665	R2HCPK824A	SOLID	820K	1/2W	K	1
R666	R2HCPK392A	SOLID	3.9K	1/2W	K	1
R667	R2HCPK104A	SOLID	100K	1/2W	K	1
R668	R2ESPJ681A	CARBON	680	1/4W	J	1
R901	R2HCPK681A	SOLID	680	1/2W	K	1
▲ R902	R2HCPK100A	SOLID	10	1/2W	K	1
R903	R2HCPK152A	SOLID	1.5K	1/2W	K	1
R904	R2HCPK333A	SOLID	33K	1/2W	K	1
R905	R2HCPK223A	SOLID	22K	1/2W	K	1

**TUBES AND SEMICONDUCTORS**

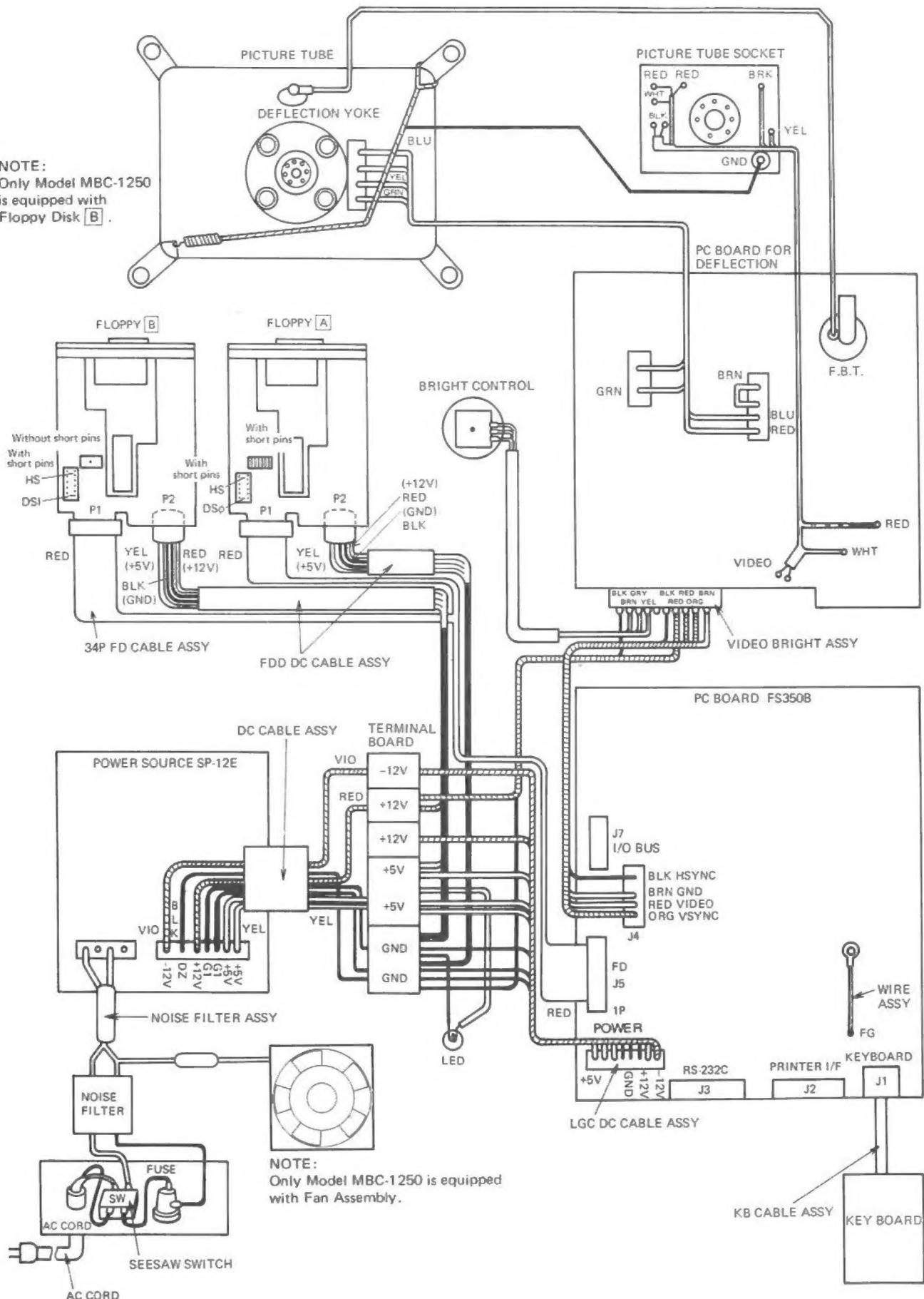
D201	4 2021 10670	SI DIODE SIB01-02	1
D202	4 2021 07670	SI DIODE 1S2076A	1
D601	4 2020 03590	GE DIODE 1S188TV	1
D602	4 2020 03590	GE DIODE 1S188TV	1
▲ D603	4 2021 10770	SI DIODE ERB24-02D	1
▲ or	4 2021 15870	SI DIODE SM-1-02FR	1
D604	4 2021 19470	SI DIODE U19C	1
or	4 2029 00100	SI DIODE GFB30C	1
D605	4 2021 10270	SI DIODE ERB24-04D	1
D606	4 2021 10270	SI DIODE ERB24-04D	1
D607	4 2021 21570	SI DIODE DFA01L	1
D609	4 2021 10470	SI DIODE ERB24-06D	1
IC501	4 2061 08670	IC $\mu$ PC1031H2	1
Q201	TG2SC536	SI TR	1
or	TN2SC945	SI TR	1
Q202	TM2SC1360A	SI TR 2SC1360A	1
▲ Q551	TG2SD612-E	SI TR	1
▲ or	TG2SD612-F	SI TR	1

**PARTS LIST (Display Monitor)**

Location	Parts Code	Description	Q'ty
Q601	TG2SC536	SI TR	1
or	TN2SC945	SI TR	1
Q602	TG2SD400--E	SI TR	1
or	TG2SD400--F	SI TR	1
▲ Q603	TN2SC2373--5	SI TR 2SC2373-5	1
Q604	TG2SC536	SI TR	1
or	TN2SC945	SI TR	1
Q651	TS2SC2501	SI TR 2SC2501	1
TH501	4 2041 05770	THERMISTOR 52D26TS	1
▲ V901	QNMC1270P39NN	CRT C1270P39-ARF	1

## -WIRING DIAGRAM-

**NOTE:**  
Only Model MBC-1250  
is equipped with  
Floppy Disk **B**.





SANYO ELECTRIC TRADING CO., LTD.  
33, HIYOSHI-CHO 2-CHOME, MORIGUCHI-SHI,  
OSAKA, 570 JAPAN